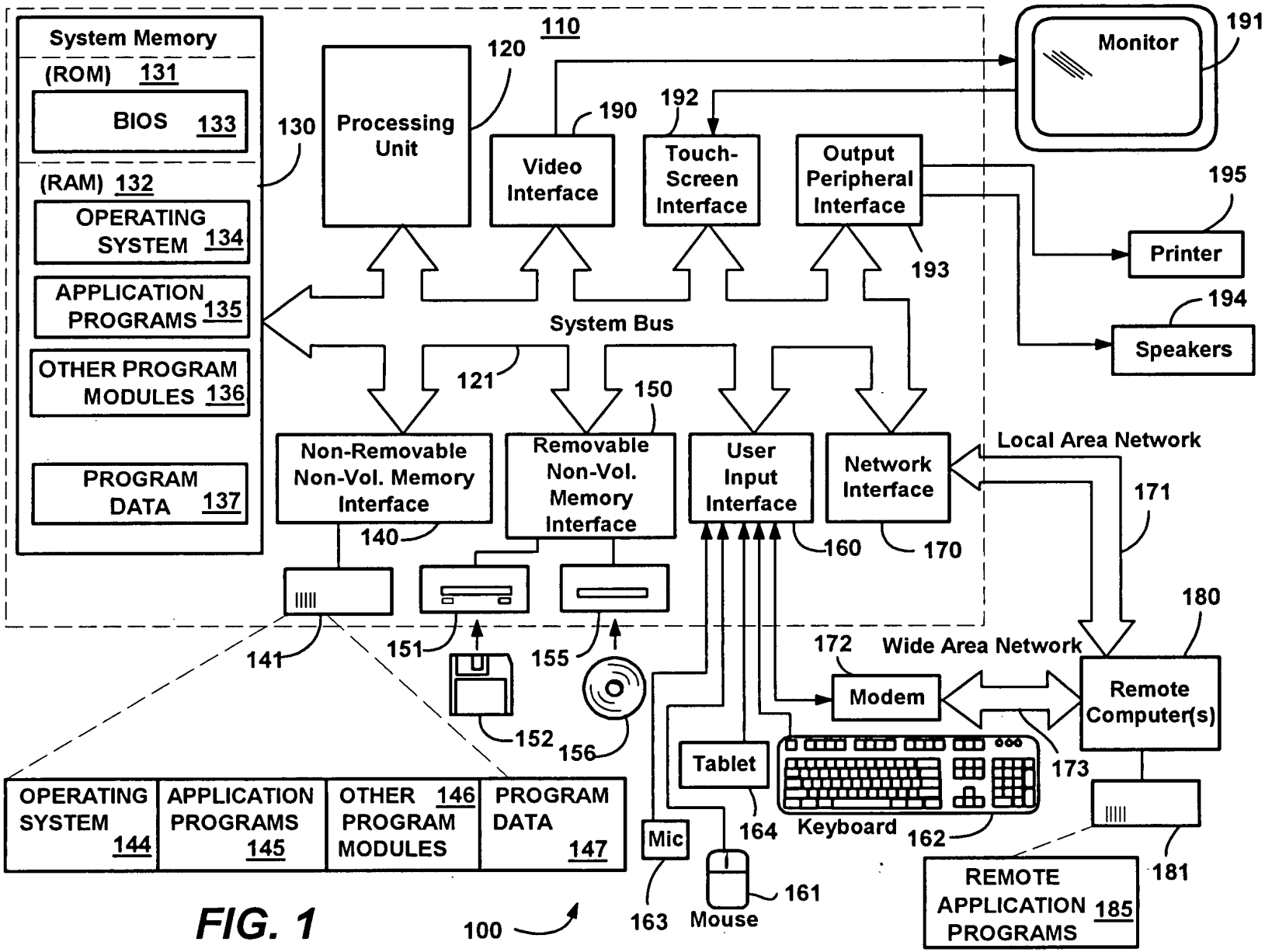
System Memory
(ROM) 131
BIOS 133
(RAM) 132
OPERATING SYSTEM 134
APPLICATION PROGRAMS 135
OTHER PROGRAM MODULES 136
PROGRAM DATA 137
130
Processing Unit
120
110
Video Interface
190
Touch-Screen Interface
192
Output Peripheral Interface
193
Monitor
191
Printer
195
Speakers
194
System Bus
121
150
Non-Removable Non-Vol. Memory Interface
140
Removable Non-Vol. Memory Interface
User Input Interface
160
Network Interface
170
Local Area Network
171
141
151
155
152
156
172
Wide Area Network
Modem
Remote Computer(s)
180
173
Tablet
164
Keyboard
162
Mic
163
Mouse
161
181
REMOTE APPLICATION PROGRAMS 185
OPERATING SYSTEM 144
APPLICATION PROGRAMS 145
OTHER PROGRAM MODULES 146
PROGRAM DATA 147
100

FIG. 1

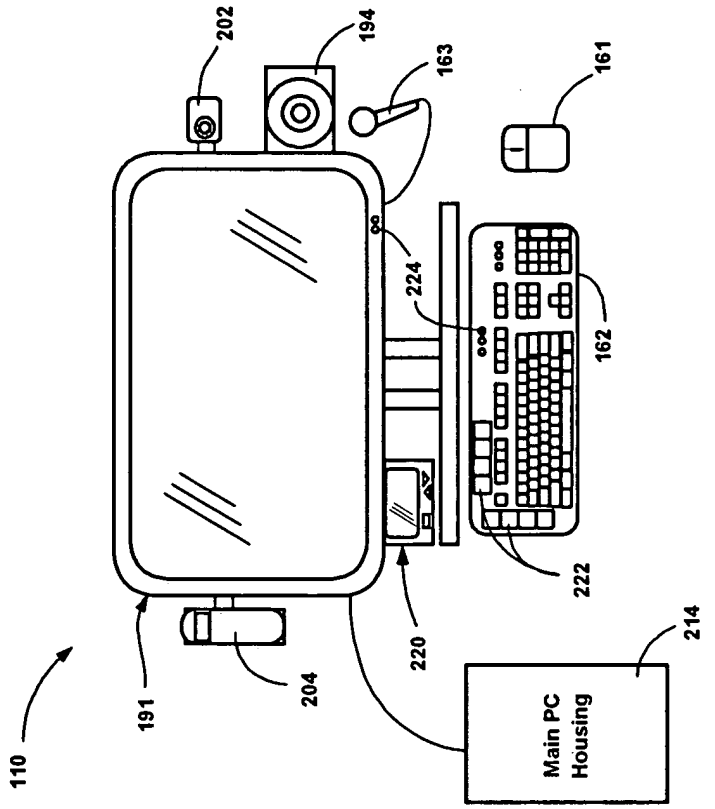

FIG. 2

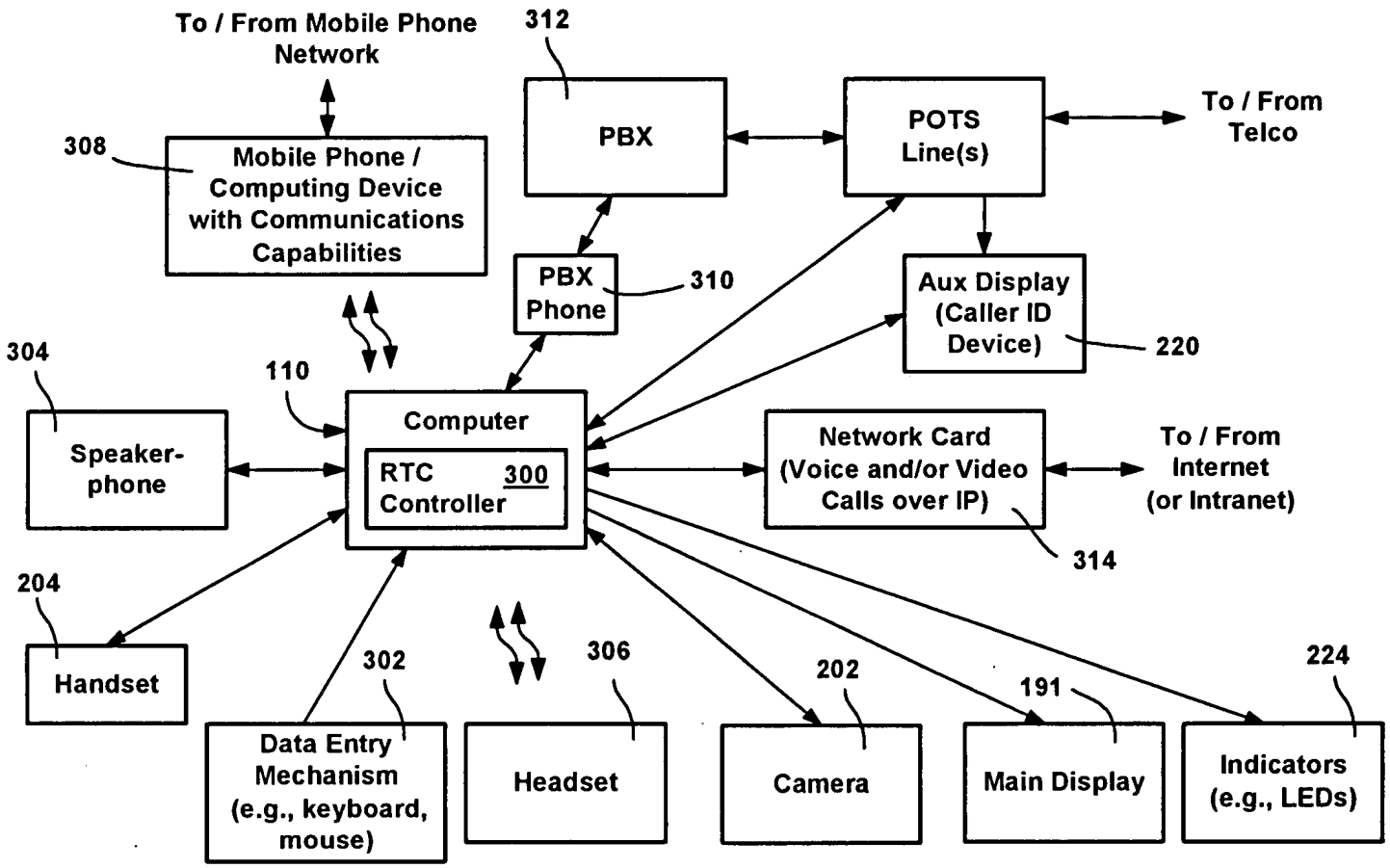
To / From Mobile Phone Network
312
PBX
POTS Line(s)
To / From Telco
308
Mobile Phone / Computing Device with Communications Capabilities
PBX Phone
310
Aux Display (Caller ID Device)
220
304
110
Computer
RTC 300 Controller
Speaker-phone
Network Card (Voice and/or Video Calls over IP)
To / From Internet (or Intranet)
314
204
Handset
302
306
202
191
224
Data Entry Mechanism (e.g., keyboard, mouse)
Headset
Camera
Main Display
Indicators (e.g., LEDs)

FIG. 3

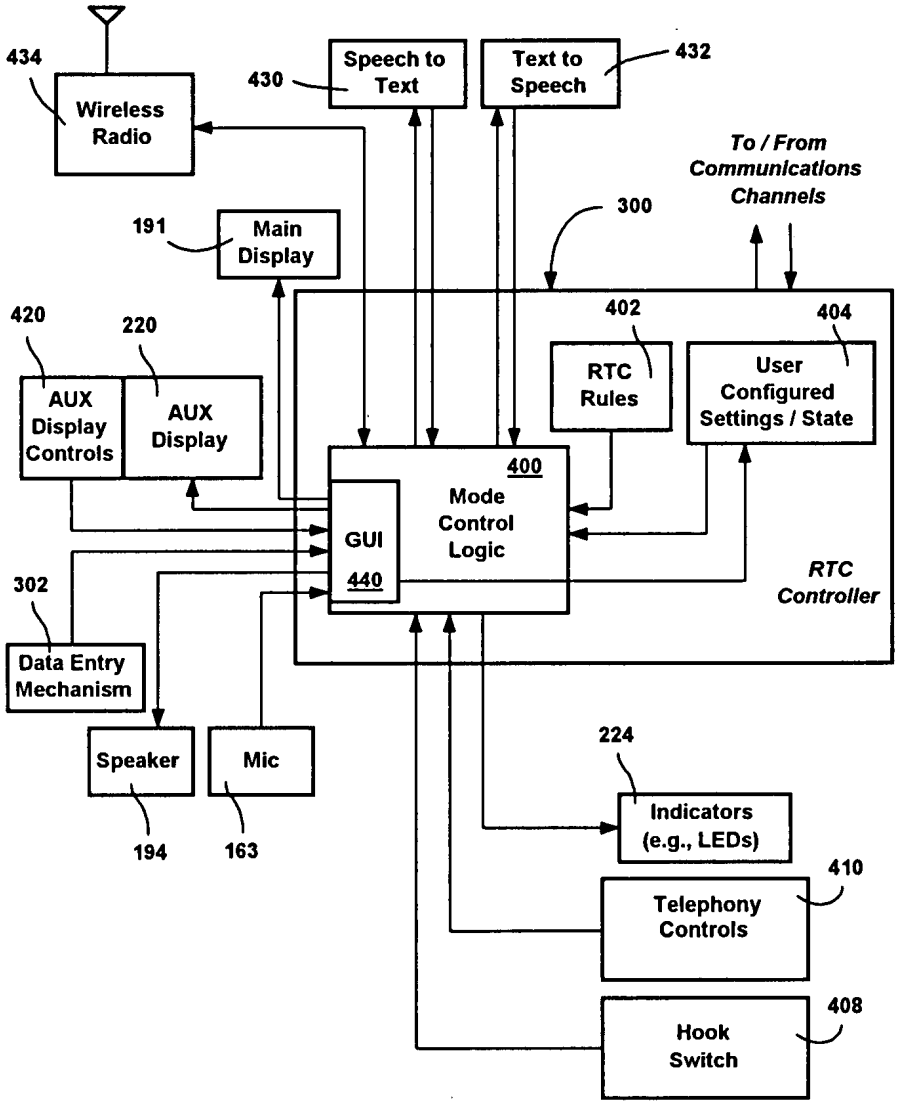
434
Wireless Radio
430
Speech to Text
Text to Speech
432
To / From Communications Channels
300
191
Main Display
420
220
AUX Display Controls
AUX Display
402
RTC Rules
404
User Configured Settings / State
400
Mode Control Logic
GUI
440
RTC Controller
302
Data Entry Mechanism
Speaker
Mic
194
163
224
Indicators (e.g., LEDs)
410
Telephony Controls
408
Hook Switch

FIG. 4

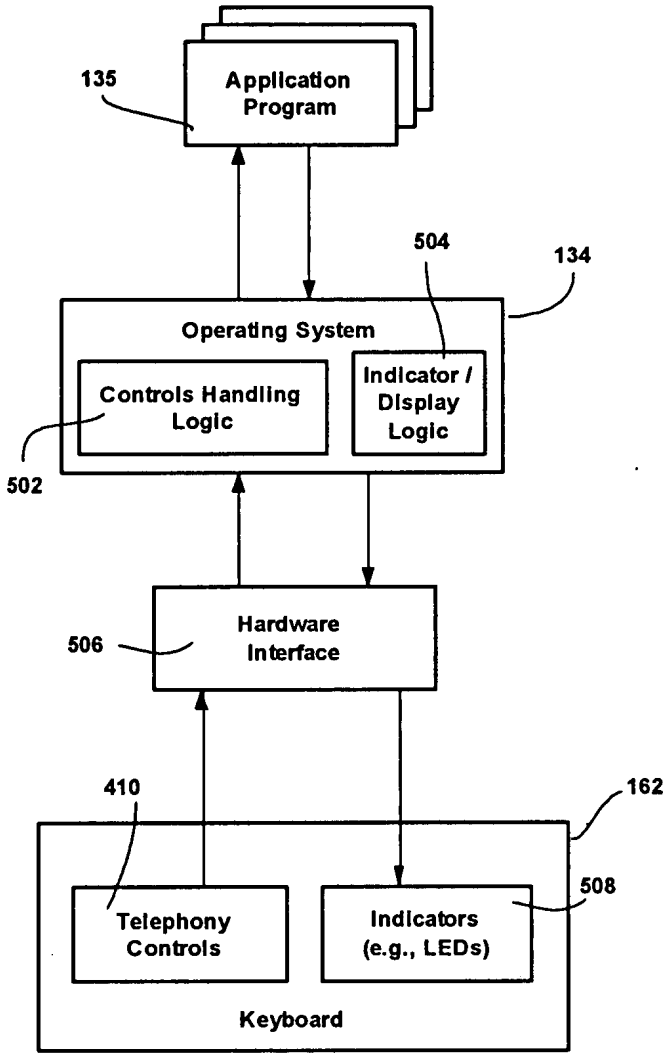
135
Application Program
504
134
Operating System
Controls Handling Logic
Indicator / Display Logic
502
Hardware Interface
506
410
162
Telephony Controls
Indicators (e.g., LEDs)
508
Keyboard

FIG. 5

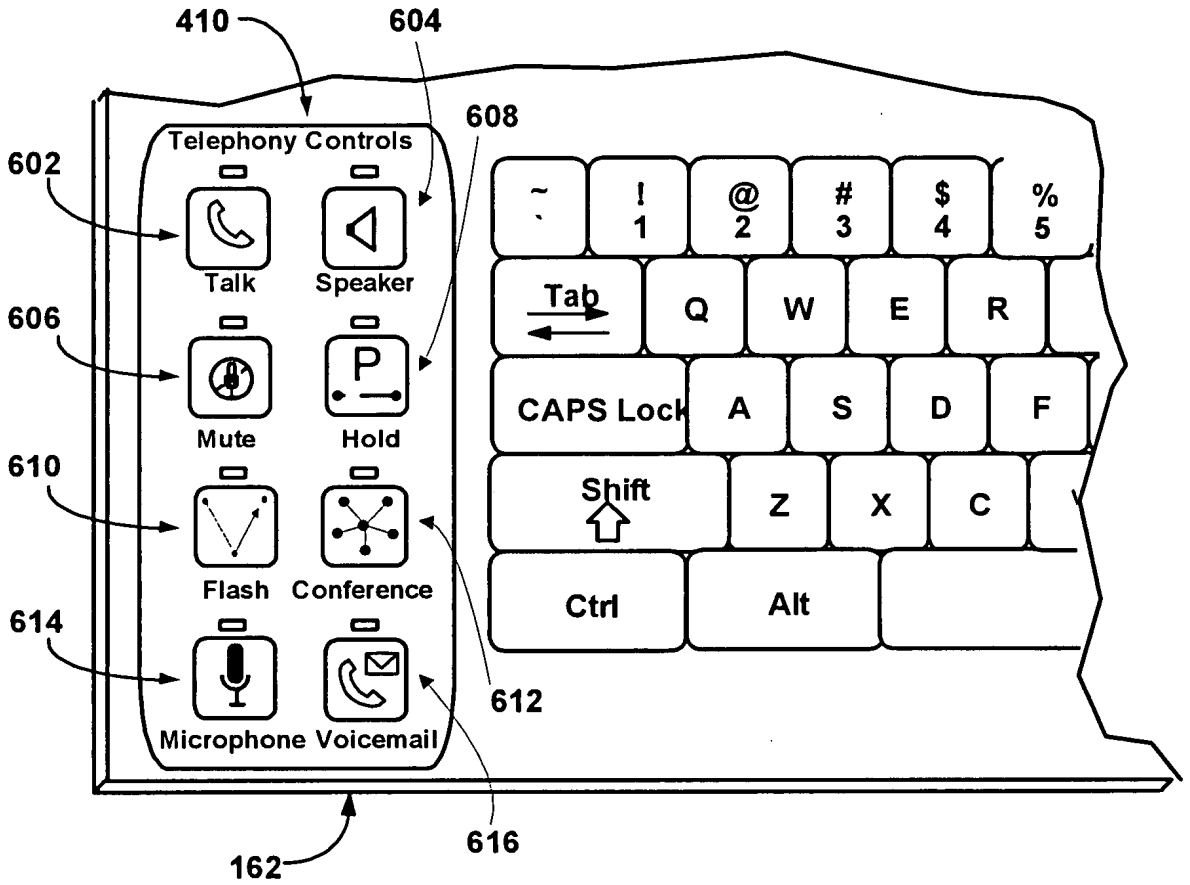
410
604
608
602
606
610
614
612
616
162
Telephony Controls
Talk
Speaker
Mute
Hold
Flash
Conference
Microphone
Voicemail
~ `
! 1
@ 2
# 3
$ 4
% 5
Tab
Q
W
E
R
CAPS Lock
A
S
D
F
Shift
Z
X
C
Ctrl
Alt

FIG. 6

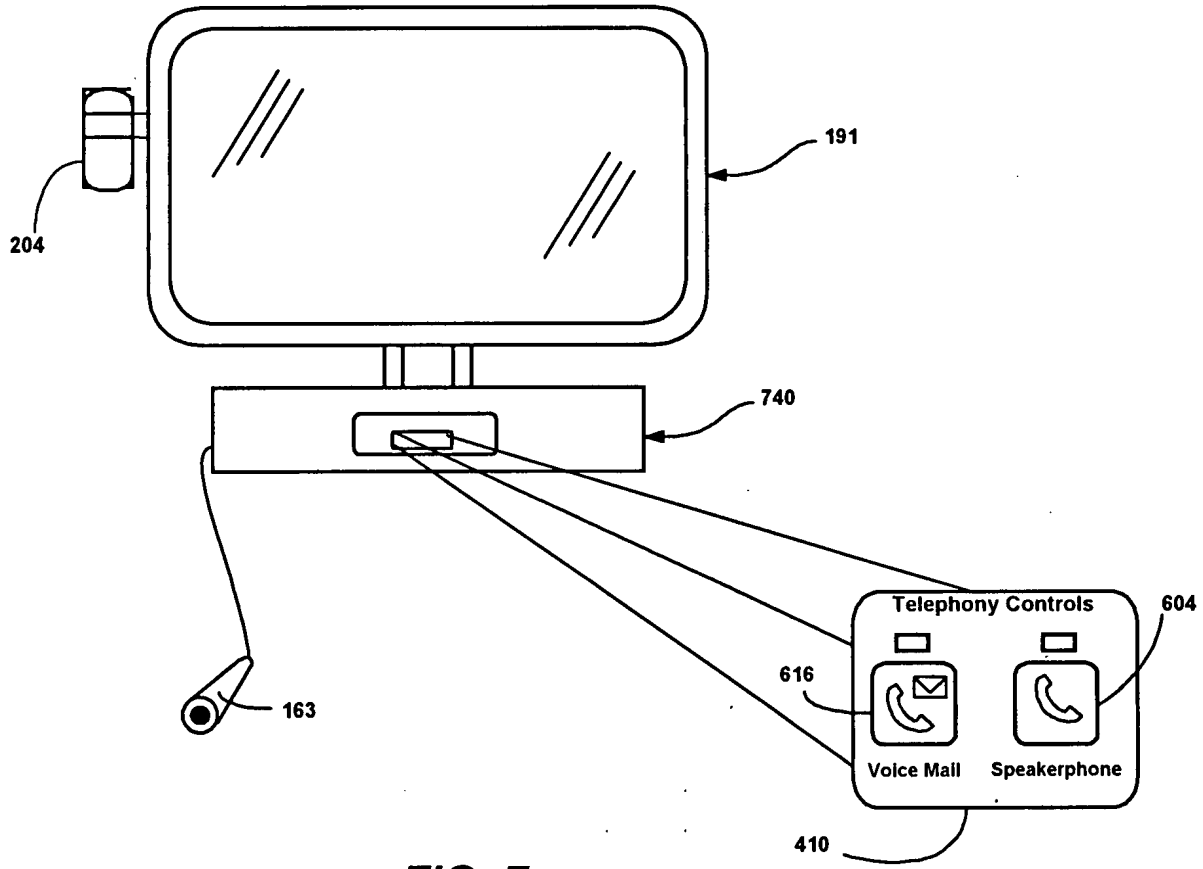
191
204
740
163
Telephony Controls
604
616
Voice Mail
Speakerphone
410

FIG. 7

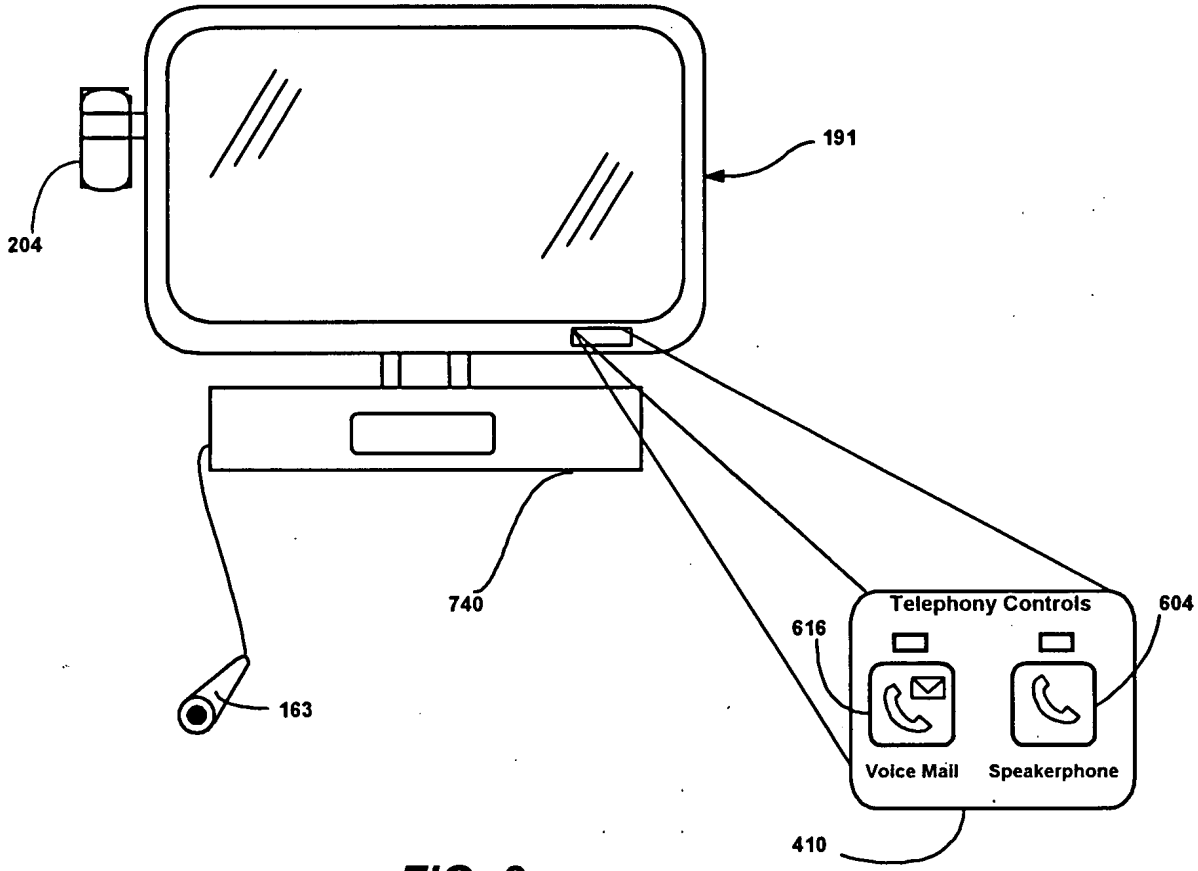
191
204
740
Telephony Controls
604
616
Voice Mail
Speakerphone
163
410

FIG. 8

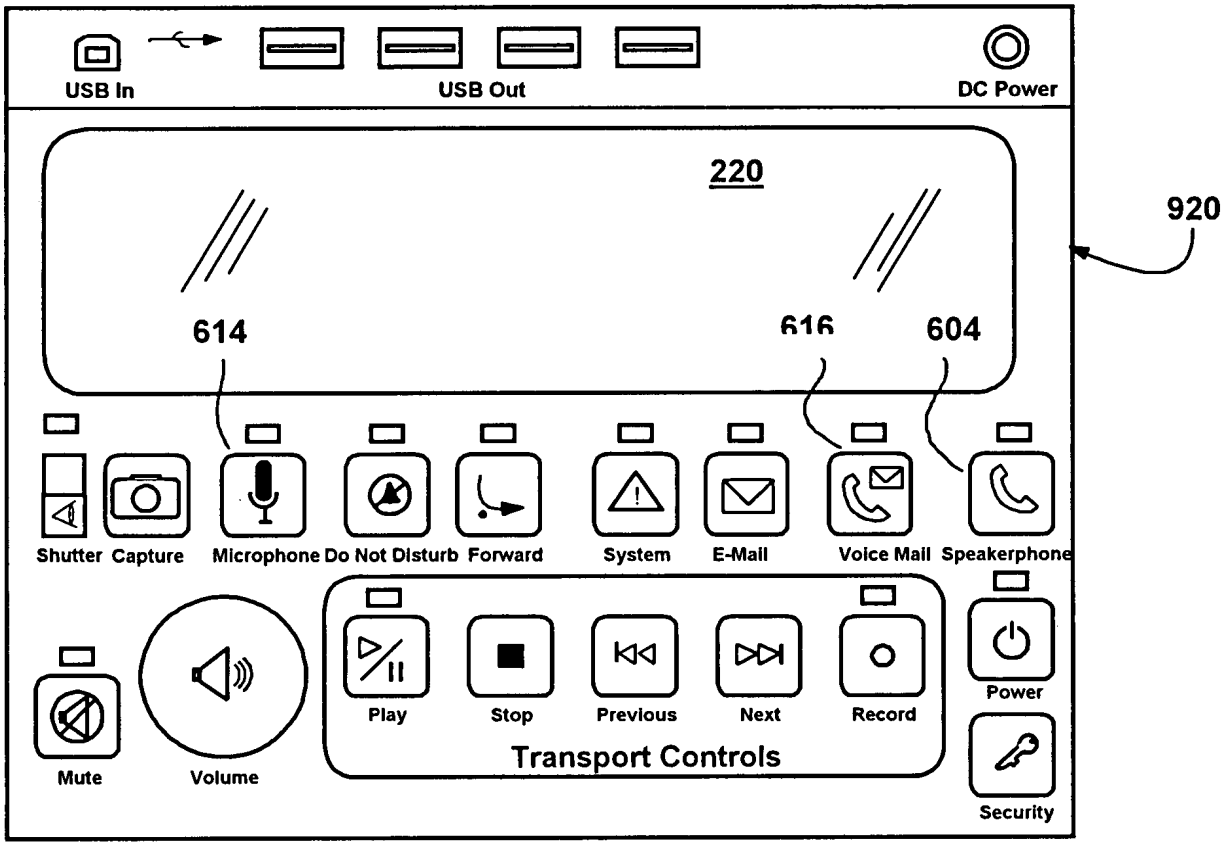
USB In
USB Out
DC Power
220
920
614
616
604
Shutter
Capture
Microphone
Do Not Disturb
Forward
System
E-Mail
Voice Mail
Speakerphone
Mute
Volume
Play
Stop
Previous
Next
Record
Transport Controls
Power
Security

FIG. 9

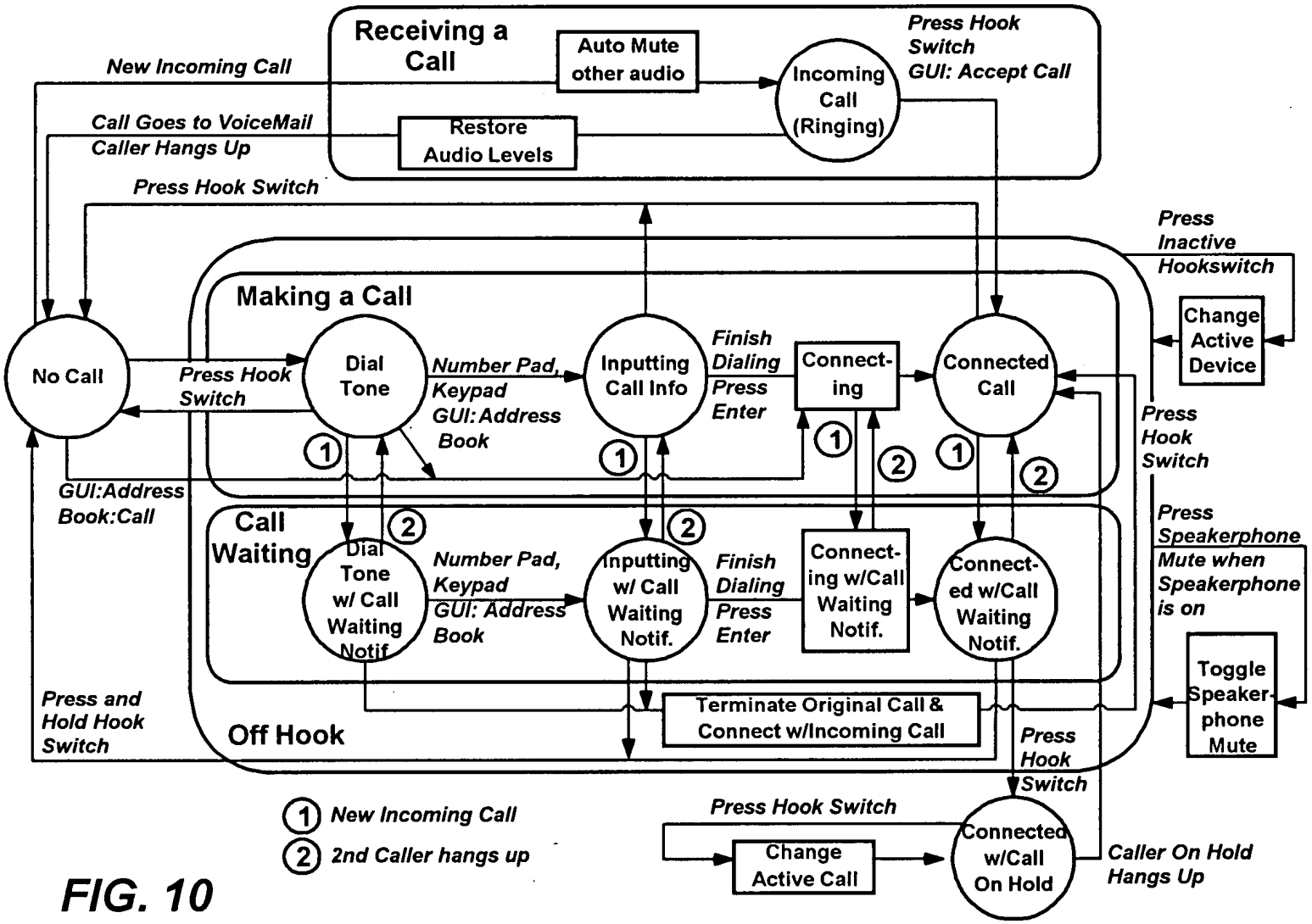
Receiving a Call
Auto Mute other audio
Incoming Call (Ringing)
Press Hook Switch
GUI: Accept Call
New Incoming Call
Call Goes to VoiceMail
Caller Hangs Up
Restore Audio Levels
Press Hook Switch
Press Inactive Hookswitch
Change Active Device
Making a Call
No Call
Press Hook Switch
Dial Tone
Number Pad, Keypad GUI: Address Book
Inputting Call Info
Finish Dialing Press Enter
Connect-ing
Connected Call
GUI:Address Book:Call
Press Hook Switch
Call Waiting
Dial Tone w/ Call Waiting Notif
Number Pad, Keypad GUI: Address Book
Inputting w/ Call Waiting Notif.
Finish Dialing Press Enter
Connect-ing w/Call Waiting Notif.
Connect-ed w/Call Waiting Notif.
Press Speakerphone Mute when Speakerphone is on
Toggle Speaker-phone Mute
Press and Hold Hook Switch
Terminate Original Call & Connect w/Incoming Call
Off Hook
Press Hook Switch
1 New Incoming Call
2 2nd Caller hangs up
Press Hook Switch
Change Active Call
Connected w/Call On Hold
Caller On Hold Hangs Up

FIG. 10